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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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77339	7590	04/30/2009		EXAMINER
JACKSON WALKER (CONEXANT) 901 MAIN STREET, SUITE 6000 DALLAS, TX 75202				JACKSON, JENISE E
			ART UNIT	PAPER NUMBER
			2439	
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				PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/611,402	Applicant(s) WASHINGTON, WINEFRED
	Examiner JENISE E. JACKSON	Art Unit 2439

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 11 July 2008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5,7-15 and 17-29 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-5,7-15, 17-29 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-166/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5, 7-15, 17-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Halpern(2006/0239453).

3. As per claim 1, Halpern discloses an integrated encryption key generator [0022, 0045]; a data buffer[0063]; an input/output register that interfaces with memory of the digital device[0050], and a memory controller that directs digital data from the memory to the data buffer with the digital data passing thorough the encryption key generator prior to entering the input/output register[0063].

4. As per claim 2, Halpern discloses an inaccurate clock[0015] a key store[0045] and a linear feedback shift register[0014]generates a pseudorandom bit pattern while the linear feedback shift register is enabled and stores a plurality of bits as at least one key in the key store[0014, 0063].

5. As per claim 3, Halpern discloses where the encryption key generator further includes a random number generator that receives the pseudorandom bit pattern from the linear feedback shift register and provides a random number for use by the digital device[0039, 0050].

6. As per claim 4, Halpern discloses pseudorandom bit pattern that creates a bit stream; and a key store that stores portions of pseudorandom bit pattern as the at least one keys[0050, 0063].
7. As per claim 5, Halpern discloses including a pseudo random number generator that selects a portion of the pseudorandom bit pattern to be random number[0052].
8. As per claim 7, Halpern discloses a subkey that creates a sub-key based on data from the memory controller and a selected key from the key store; and a combiner that combines the sub-key with the digital data[0069].
9. As per claim 8, Halpern discloses a data mixer that mixes the bits of a byte of digital data; and a combiner that combines the byte of the digital data prior to the byte being combined with the sub-key[0062, 0069].
10. As per claim 9, Halpern discloses a memory controller that generates a memory request to retrieve the encrypted digital data; and encryption circuit with a plurality of key that decrypts the encrypted digital data in response to the memory request of the memory controller[0045-0046]
11. As per claim 10, Halpern discloses a combiner that combines one of the plurality of keys with a bank and row information contained in the memory request resulting in a sub-key[0062, 0069].
12. As per claim 11, Halpern discloses a data mixer that unmixes bits within a byte after the sub-key is applied to encrypted digital data[0062, 0069].

13. As per claim 12, Halpern discloses generating at least one key, placing the digital data in a data buffer; and encrypting the digital data using the at least one key while the digital data is being placed[0022, 0045, 0063].
14. As per claim 13, Halpern discloses generating of an inaccurate clock signal[0063], creating a pseudorandom bit pattern, and storing at least one portion of the pseudorandom bit pattern in a key store as the at least one key[0052].
15. As per claim 14, Halpern discloses where the pseudorandom bit pattern is generated by a linear feedback shift register[0064].
16. As per claims 15, 21, Halpern discloses generating a random number from the pseudorandom bit pattern[0039, 0050].
17. As per claim 17, Halpern discloses selecting a portion of the pseudorandom bit pattern to be used a random number[0050].
18. As per claim 18, Halpern discloses mixing the bits of a byte of the digital data with a data and combining the byte with the at least one key[0062, 0069].
19. As per claim 19, Halpern discloses generating a sub-key with data from the memory controller and the key; and combining the sub-key with the digital data[0069].
20. As per claim 20, Halpern discloses mixing the bits of byte of digital data with a data mixer; and combining the byte with the sub-key[0050].
21. As per claim 22, Halpern discloses generating a memory request to retrieve the encrypted digital data; and decrypting the encrypted digital data using at least one key[0045-0046].
22. As per claim 23, Halpern discloses combining the at least one key with a bank and row information contained in the memory request to generate a sub-key[0062, 0069].

23. As per claim 24, Halpern discloses unmixing a byte of encrypted digital data with a data mixer[0069].

24. As per claim 25, Halpern discloses an encryption circuit with at least one key, a data buffer filled with the digital data[0022, 0045, 0063], a memory controller that directs and the storage of digital data in the rewriteable memory with the digital data being encrypted by the encryption circuit and the at least one key after the digital data has entered the data buffer but prior to being stored in the rewritable memory[0063].

25. As per claim 26, Halpern discloses a pseudorandom bit stream generator that creates a pseudorandom bit stream; and a key store that stores the at least one key that is selected from the pseudorandom bit stream[0052].

26. As per claims 27, Halpern discloses a data mixer mixes the bits of a byte of the digital data; and a combiner that combines the byte with the key[0050].

27. As per claims 28, Halpern discloses wherein the memory controller that directs digital data from the memory to the data buffer with the digital data passing through the encryption key generator prior to entering the input/output register comprises means for encrypting the digital data prior to entering the input/output register[0063].

28. As per claim 29, Halpern discloses wherein the encryption circuit further comprises an inaccurate clock[0015].

Response to Applicant

29. The Examiner previously rejected claims 1-5, 7-15, 17-27 in office action dated 4/4/08. The Applicant amended claims 1-2, and 13. The Applicant added new claims 28-29 on 7/11/08.

The Applicant's arguments are persuasive and new art has been applied to claim. Therefore, arguments are moot.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENISE E. JACKSON whose telephone number is (571)272-3791. The examiner can normally be reached on Increased Flex time, but generally in the office M-Fri(8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

April 26, 2009
/J. E. J./
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/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434